0500

RAW SEQUENCE LISTING   DATE: 12/06/2000
PATENT APPLICATION: US/09/716,395   TIME: 14:46:53

Input Set : A:\6752USO1 SEQ LISTING.TXT
Output Set: N:\CRF3\12062000\I716395.raw

ENTERED

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    4 <110> APPLICANT: Fesik, Steven W.
    5          Petros, Andrew M.
    6          Yoon, Ho Sup
    7          Nettesheim, David G.
    9 <120> TITLE OF INVENTION: MUTANT BCL-2 PEPTIDES AND USES THEREOF
   12 <130> FILE REFERENCE: 6752.US.O1
C-> 14 <140> CURRENT APPLICATION NUMBER: US/09/716,395
C-> 14 <141> CURRENT FILING DATE: 2000-11-20
   14 <160> NUMBER OF SEQ ID NOS: 37
   16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
   18 <210> SEQ ID NO: 1
   19 <211> LENGTH: 16
   20 <212> TYPE: PRT
   21 <213> ORGANISM: Homo sapiens
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   28 <210> SEQ ID NO: 2
   29 <211> LENGTH: 166
   30 <212> TYPE: PRT
   31 <213> ORGANISM: Homo sapiens
   33 <400> SEQUENCE: 2
   34 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
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   36 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
   37                 20                  25                  30
   38 Gly Asp Asp Val Glu Glu Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu
   39             35                  40                  45
   40 Ser Glu Val Val His Leu Ala Leu Arg Gln Ala Gly Asp Asp Phe Ser
   41     50                  55                  60
   42 Arg Arg Tyr Arg Gly Asp Phe Ala Glu Met Ser Ser Gln Leu His Leu
   43 65                  70                  75                  80
   44 Thr Pro Phe Thr Ala Arg Gly Arg Phe Ala Thr Val Val Glu Glu Leu
   45                 85                  90                  95
   46 Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Glu Phe
   47             100                 105                 110
   48 Gly Gly Val Met Cys Val Glu Ser Val Asn Arg Glu Met Ser Pro Leu
   49             115                 120                 125
   50 Val Asp Asn Ile Ala Leu Trp Met Thr Glu Tyr Leu Asn Arg His Leu
   51     130                 135                 140
   52 His Thr Trp Ile Gln Asp Asn Gly Gly Trp Asp Ala Phe Val Glu Leu
   53 145                 150                 155                 160
   54 Tyr Gly Pro Ser Met Arg
   55                 165
   58 <210> SEQ ID NO: 3
   59 <211> LENGTH: 239
   60 <212> TYPE: PRT
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61 <213> ORGANISM: Homo sapiens
63 <400> SEQUENCE: 3
64 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
65  1               5                   10                  15
66 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
67              20                  25                  30
68 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
69          35                  40                  45
70 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
71      50                  55                  60
72 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
73 65                  70                  75                  80
74 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
75              85                  90                  95
76 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
77              100                 105                 110
78 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
79          115                 120                 125
80 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
81      130                 135                 140
82 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
83 145                 150                 155                 160
84 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
85              165                 170                 175
86 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
87          180                 185                 190
88 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
89          195                 200                 205
90 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
91      210                 215                 220
92 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys
93 225                 230                 235
96 <210> SEQ ID NO: 4
97 <211> LENGTH: 239
98 <212> TYPE: PRT
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 4
102 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
103  1               5                   10                  15
104 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
105              20                  25                  30
106 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
107          35                  40                  45
108 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
109      50                  55                  60
110 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
111 65                  70                  75                  80
112 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr
113              85                  90                  95
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RAW SEQUENCE LISTING   DATE: 12/06/2000
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Input Set : A:\6752USO1 SEQ LISTING.TXT
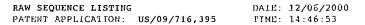Output Set: N:\CRF3\12062000\I716395.raw

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114 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe
115          100                 105                 110
116 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
117          115                 120                 125
118 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
119          130                 135                 140
120 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
121 145                  150                 155                 160
122 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
123                  165                 170                 175
124 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
125                  180                 185                 190
126 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
127          195                 200                 205
128 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
129          210                 215                 220
130 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys
131 225                  230                 235
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 239
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 5
140 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
141 1                    5                   10                  15
142 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
143                  20                  25                  30
144 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Phe
145          35                  40                  45
146 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
147          50                  55                  60
148 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
149 65                   70                  75                  80
150 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr
151                  85                  90                  95
152 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe
153                  100                 105                 110
154 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
155          115                 120                 125
156 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
157          130                 135                 140
158 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
159 145                  150                 155                 160
160 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
161                  165                 170                 175
162 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
163                  180                 185                 190
164 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
165          195                 200                 205
```

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Input Set : A:\6752USO1 SEQ LISTING.TXT
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```
166 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
167     210             215             220
168 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys
169 225             230             235
172 <210> SEQ ID NO: 6
173 <211> LENGTH: 237
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 6
178 Met Ser Met Ala Met Ser Gln Ser Asn Arg Glu Leu Val Val Asp Phe
179  1               5               10              15
180 Leu Ser Tyr Lys Leu Ser Gln Lys Gly Tyr Ser Trp Ser Gln Phe Ser
181         20              25              30
182 Asp Val Glu Glu Asn Arg Thr Glu Ala Pro Glu Glu Thr Glu Ser Glu
183         35              40              45
184 Met Glu Thr Pro Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala
185     50              55              60
186 Asp Ser Pro Ala Val Asn Gly Ala Thr Gly His Ser Ser Ser Leu Asp
187 65              70              75              80
188 Ala Arg Glu Val Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu
189             85              90              95
190 Ala Gly Asp Glu Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu
191         100             105             110
192 Thr Ser Gln Leu His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu
193         115             120             125
194 Gln Val Val Asn Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile
195     130             135             140
196 Val Ala Phe Phe Ser Phe Gly Gly Ala Leu Cys Val Glu Ser Val Asp
197 145             150             155             160
198 Lys Glu Met Gln Val Leu Val Ser Arg Ile Ala Ala Trp Met Ala Thr
199             165             170             175
200 Tyr Leu Asn Asp His Leu Glu Pro Trp Ile Gln Glu Asn Gly Gly Trp
201         180             185             190
202 Asp Thr Phe Val Glu Leu Tyr Gly Asn Asn Ala Ala Ala Glu Ser Arg
203         195             200             205
204 Lys Gly Gln Glu Arg Phe Asn Arg Trp Phe Leu Thr Gly Met Thr Val
205     210             215             220
206 Ala Gly Val Val Leu Leu Gly Ser Leu Phe Ser Arg Lys
207 225             230             235
210 <210> SEQ ID NO: 7
211 <211> LENGTH: 43
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: primer
218 <400> SEQUENCE: 7
219 cactcaccat atggctcacg ctgggagaac ggggtacgac aac                43
221 <210> SEQ ID NO: 8
222 <211> LENGTH: 43
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Input Set : A:\6752USO1 SEQ LISTING.TXT
Output Set: N:\CRF3\12062000\I716395.raw

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223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: primer
229 <400> SEQUENCE: 8
230 gcgagctctc gagcttcaga gacagccagg agaaatcaaa cag              43
232 <210> SEQ ID NO: 9
233 <211> LENGTH: 48
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: primer
240 <400> SEQUENCE: 9
241 gccccagaag ggactgaatc ggaggtggtc cacctggccc tccgccaa         48
243 <210> SEQ ID NO: 10
244 <211> LENGTH: 48
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: primer
251 <400> SEQUENCE: 10
252 ctcagtacgg ttctcttcca catcatctcc cgcatcccac tcgtagcc         48
254 <210> SEQ ID NO: 11
255 <211> LENGTH: 43
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: primer
262 <400> SEQUENCE: 11
263 cactcaccat atggctcacg ctgggagaac ggggtacgac aac              43
265 <210> SEQ ID NO: 12
266 <211> LENGTH: 50
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: primer
273 <400> SEQUENCE: 12
274 gcgaagctct cgagctatca atcaaacaga ggccgcatgc tggggccgta       50
276 <210> SEQ ID NO: 13
277 <211> LENGTH: 31
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: primer
284 <400> SEQUENCE: 13
285 gaggtggtcc acctgaccct ccgccaagcc g                           31
287 <210> SEQ ID NO: 14
288 <211> LENGTH: 31
289 <212> TYPE: DNA
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VERIFICATION SUMMARY   DATE: 12/06/2000
PATENT APPLICATION: US/09/716,395   TIME: 14:46:54

Input Set : A:\6752USO1 SEQ LISTING.TXT
Output Set: N:\CRF3\12062000\I716395.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date